Tor Arne Johansen

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291 5,424 35 63 g-index

310 7,048 3.3 6.51 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
291	Control allocation survey. Automatica, 2013, 49, 1087-1103	5.7	560
290	An algorithm for multi-parametric quadratic programming and explicit MPC solutions. <i>Automatica</i> , 2003 , 39, 489-497	5.7	384
289	Approximate explicit receding horizon control of constrained nonlinear systems. <i>Automatica</i> , 2004 , 40, 293-300	5.7	176
288	Stabilization of Automotive Vehicles Using Active Steering and Adaptive Brake Control Allocation. <i>IEEE Transactions on Control Systems Technology</i> , 2010 , 18, 545-558	4.8	153
287	Ship Collision Avoidance and COLREGS Compliance Using Simulation-Based Control Behavior Selection With Predictive Hazard Assessment. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016 , 17, 3407-3422	6.1	115
286	Fault tolerant control allocation using unknown input observers. <i>Automatica</i> , 2014 , 50, 1891-1897	5.7	111
285	Adaptive control allocation. <i>Automatica</i> , 2008 , 44, 2754-2765	5.7	106
284	A Survey of Control Allocation Methods for Ships and Underwater Vehicles 2006,		90
283	On Tikhonov regularization, bias and variance in nonlinear system identification. <i>Automatica</i> , 1997 , 33, 441-446	5.7	84
282	Optimization of Wireless Sensor Network and UAV Data Acquisition. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2015 , 78, 159-179	2.9	77
281	Dynamic Positioning With Model Predictive Control. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 1340-1353	4.8	74
280	Computation of Lyapunov functions for smooth nonlinear systems using convex optimization. <i>Automatica</i> , 2000 , 36, 1617-1626	5.7	73
279	Identification of non-linear systems using empirical data and prior knowledgelln optimization approach. <i>Automatica</i> , 1996 , 32, 337-356	5.7	72
278	Optimal constrained control allocation in marine surface vessels with rudders. <i>Control Engineering Practice</i> , 2008 , 16, 457-464	3.9	71
277	Efficient Optimal Constrained Control Allocation via Multiparametric Programming. <i>Journal of Guidance, Control, and Dynamics</i> , 2005 , 28, 506-515	2.1	70
276	Globally exponentially stable attitude and gyro bias estimation with application to GNSS/INS integration. <i>Automatica</i> , 2015 , 51, 158-166	5.7	68
275	Hardware Synthesis of Explicit Model Predictive Controllers. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 191-197	4.8	67

(2009-2012)

274	Path Planning for UAVs Under Communication Constraints Using SPLAT! and MILP. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2012 , 65, 265-282	2.9	65	
273	Explicit sub-optimal linear quadratic regulation with state and input constraints. <i>Automatica</i> , 2002 , 38, 1099-1111	5.7	64	
272	Using hash tables to manage the time-storage complexity in a point location problem: Application to explicit model predictive control. <i>Automatica</i> , 2011 , 47, 571-577	5.7	63	
271	On the facet-to-facet property of solutions to convex parametric quadratic programs. <i>Automatica</i> , 2006 , 42, 2209-2214	5.7	61	
270	2015,		56	
269	Explicit stochastic predictive control of combustion plants based on Gaussian process models. <i>Automatica</i> , 2008 , 44, 1621-1631	5.7	55	
268	Energy-based control of a distributed solar collector field. <i>Automatica</i> , 2002 , 38, 1191-1199	5.7	55	
267	Explicit Nonlinear Model Predictive Control. Lecture Notes in Control and Information Sciences, 2012,	0.5	53	
266	On estimation of wind velocity, angle-of-attack and sideslip angle of small UAVs using standard sensors 2015 ,		51	
265	Neural network augmented identification of underwater vehicle models. <i>Control Engineering Practice</i> , 2007 , 15, 715-725	3.9	50	
264	Do it yourself hyperspectral imager for handheld to airborne operations. <i>Optics Express</i> , 2018 , 26, 6021	-6035	41	
263	Flexible Piecewise Function Evaluation Methods Based on Truncated Binary Search Trees and Lattice Representation in Explicit MPC. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 632-	640 ⁸	41	
262	Gain-scheduled control of a solar power plant. Control Engineering Practice, 2000, 8, 1011-1022	3.9	39	
261	Toward Dependable Embedded Model Predictive Control. IEEE Systems Journal, 2017, 11, 1208-1219	4.3	38	
260	. IEEE Access, 2015 , 3, 2065-2079	3.5	37	
259	Computation, approximation and stability of explicit feedback minthax nonlinear model predictive control. <i>Automatica</i> , 2009 , 45, 1134-1143	5.7	37	
258	Nonlinear observer for GNSS-aided inertial navigation with quaternion-based attitude estimation 2013 ,		36	
257	A Four-Quadrant Thrust Estimation Scheme for Marine Propellers: Theory and Experiments. <i>IEEE Transactions on Control Systems Technology</i> , 2009 , 17, 215-226	4.8	36	

256	Nonlinear Control with Swing Damping of a Multirotor UAV with Suspended Load. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2017 , 88, 379-394	2.9	35
255	Observers for interconnected nonlinear and linear systems. <i>Automatica</i> , 2012 , 48, 1339-1346	5.7	35
254	Battery Power Smoothing Control in a Marine Electric Power Plant Using Nonlinear Model Predictive Control. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 1449-1456	4.8	34
253	UAVs Trajectory Planning by Distributed MPC under Radio Communication Path Loss Constraints. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 79, 115-134	2.9	34
252	Linear Moving Horizon Estimation With Pre-Estimating Observer. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 2363-2368	5.9	32
251	Model predictive control for a multi-body slung-load system. <i>Robotics and Autonomous Systems</i> , 2017 , 92, 1-11	3.5	31
250	An improved algorithm for combinatorial multi-parametric quadratic programming. <i>Automatica</i> , 2013 , 49, 1370-1376	5.7	31
249	Design and Comparison of Explicit Model Predictive Controllers for an Electropneumatic Clutch Actuator Using On/Off Valves. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011 , 16, 665-673	5.5	31
248	COMPLEXITY REDUCTION IN EXPLICIT LINEAR MODEL PREDICTIVE CONTROL. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 189-194		31
247	Dynamic Positioning System as Dynamic Energy Storage on Diesel-Electric Ships. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 3086-3091	7	30
246	Integrated Multimodel Control of Nonlinear Systems Based on Gap Metric and Stability Margin. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 10206-10215	3.9	30
245	Lyapunov-Based Integrator Resetting With Application to Marine Thruster Control. <i>IEEE Transactions on Control Systems Technology</i> , 2008 , 16, 908-917	4.8	30
244	Linear MPC with optimal prioritized infeasibility handling: application, computational issues and stability. <i>Automatica</i> , 2001 , 37, 1835-1843	5.7	30
243	Survey on Communication and Networks for Autonomous Marine Systems. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2019 , 95, 789-813	2.9	30
242	Nonlinear Observers for Integrated INS/GNSS Navigation: Implementation Aspects. <i>IEEE Control Systems</i> , 2017 , 37, 59-86	2.9	28
241	Cooperative Control for Multirotors Transporting an Unknown Suspended Load Under Environmental Disturbances. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 653-660	4.8	28
240	Unmanned aerial vehicle as communication relay for autonomous underwater vehicle Field tests 2014 ,		27
239	An Efficient Real-Time FPGA Implementation of the CCSDS-123 Compression Standard for Hyperspectral Images. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> 2018 11 3841-3852	4.7	27

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238	The eXogenous Kalman Filter (XKF). International Journal of Control, 2017, 90, 161-167	1.5	26
237	Computational Aspects of Approximate Explicit Nonlinear Model Predictive Control 2007 , 181-192		26
236	A Parallel FPGA Implementation of the CCSDS-123 Compression Algorithm. <i>Remote Sensing</i> , 2019 , 11, 673	5	24
235	Coordinating UAVs and AUVs for oceanographic field experiments: Challenges and lessons learned 2014 ,		24
234	Nonlinear control of a multirotor UAV with suspended load 2015,		23
233	Attitude estimation by multiplicative exogenous Kalman filter. <i>Automatica</i> , 2018 , 95, 347-355	5.7	22
232	Autonomous Unmanned Aerial Vehicles in Search and Rescue Missions Using Real-Time Cooperative Model Predictive Control. <i>Sensors</i> , 2019 , 19,	3.8	21
231	Integrated Multilinear Model Predictive Control of Nonlinear Systems Based on Gap Metric. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 6002-6011	3.9	21
230	Autonomous visual navigation of Unmanned Aerial Vehicle for wind turbine inspection 2015,		21
229	Combining model-free and model-based angle of attack estimation for small fixed-wing UAVs using a standard sensor suite 2016 ,		20
228	Linear constrained moving horizon estimator with pre-estimating observer. <i>Systems and Control Letters</i> , 2014 , 67, 40-45	2.4	20
227	Dual-Mode Switched Control of an Electropneumatic Clutch Actuator. <i>IEEE/ASME Transactions on Mechatronics</i> , 2010 ,	5.5	20
226	System-Wide Harmonic Mitigation in a Diesel-Electric Ship by Model Predictive Control. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 4008-4019	8.9	19
225	Explicit output-feedback nonlinear predictive control based on black-box models. <i>Engineering Applications of Artificial Intelligence</i> , 2011 , 24, 388-397	7.2	19
224	Performance evaluation of cooperative relay and Particle Swarm Optimization path planning for UAV and wireless sensor network 2013 ,		18
223	Icing detection and identification for unmanned aerial vehicles: Multiple model adaptive estimation 2015 ,		17
222	Cluster-based communication topology selection and UAV path planning in wireless sensor networks 2013 ,		17
221	Estimation of states and parameters for linear systems with nonlinearly parameterized perturbations. Systems and Control Letters, 2011, 60, 771-777	2.4	17

220	Explicit model predictive control of gas[Iquid separation plant via orthogonal search tree partitioning. <i>Computers and Chemical Engineering</i> , 2004 , 28, 2481-2491	4	17	
219	Integrated Monitoring of Mola mola Behaviour in Space and Time. <i>PLoS ONE</i> , 2016 , 11, e0160404	3.7	17	
218	Nonlinear observer design for GNSS-aided inertial navigation systems with time-delayed GNSS measurements. <i>Control Engineering Practice</i> , 2017 , 60, 39-50	3.9	16	
217	Unmanned aerial surveillance system for hazard collision avoidance in autonomous shipping 2016 ,		16	
216	Asymptotic Stability of Perturbation-Based Extremum-Seeking Control for Nonlinear Plants. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 2302-2317	5.9	16	
215	Unmanned aerial system architecture for maritime missions. design & hardware description 2015,		15	
214	Model-Based Actuator Fault Diagnosis in Multirotor UAVs* 2018,		15	
213	Real-time georeferencing of thermal images using small fixed-wing UAVs in maritime environments. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019 , 154, 84-97	11.8	14	
212	Unmanned Aerial Vehicles as Data Mules: An Experimental Assessment. <i>IEEE Access</i> , 2017 , 5, 24716-247	12 365	14	
211	Nonlinear observer with time-varying gains for inertial navigation aided by satellite reference systems in dynamic positioning 2014 ,		14	
210	Moving horizon observer with regularisation for detectable systems without persistence of excitation. <i>International Journal of Control</i> , 2011 , 84, 1041-1054	1.5	14	
209	Identification of underwater vehicle hydrodynamic coefficients using free decay tests. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004 , 37, 363-368		14	
208	A METHOD FOR OBTAINING CONTINUOUS SOLUTIONS TO MULTIPARAMETRIC LINEAR PROGRAMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 253-	258	14	
207	Nonlinear Observer for Tightly Integrated Inertial Navigation Aided by Pseudo-Range Measurements. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017 , 139,	1.6	13	
206	Combinatorial Approach Toward Multiparametric Quadratic Programming Based on Characterizing Adjacent Critical Regions. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 3221-3231	5.9	13	
205	Nonlinear Observers for GNSS- and Camera-Aided Inertial Navigation of a Fixed-Wing UAV. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 1884-1891	4.8	13	
204	Cooperative path-following for multirotor UAVs with a suspended payload 2015,		13	
203	Optimizing adaptive control allocation with actuator dynamics 2007 ,		13	

202	Explicit stochastic Nonlinear Predictive Control based on Gaussian process models 2007,		13
201	Redundant MEMS-Based Inertial Navigation Using Nonlinear Observers. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME,</i> 2018 , 140,	1.6	12
200	Diagnosis of Icing and Actuator Faults in UAVs Using LPV Unknown Input Observers. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018 , 91, 651-665	2.9	12
199	. IEEE Transactions on Aerospace and Electronic Systems, 2016 , 52, 1631-1643	3.7	12
198	A communication bridge between underwater sensors and unmanned vehicles using a surface wireless sensor network - design and validation 2016 ,		12
197	Experiences with coastal and maritime UAS BLOS operation with phased-array antenna digital payload data link 2014 ,		12
196	A ligth-weight thermal camera payload with georeferencing capabilities for small fixed-wing UAVs 2015 ,		12
195	Path- and data transmission planning for cooperating UAVs in delay tolerant network 2012,		12
194	Estimation of road inclination and bank angle in automotive vehicles 2009,		12
193	On the Usage of Low-Cost MEMS Sensors, Strapdown Inertial Navigation, and Nonlinear Estimation Techniques in Dynamic Positioning. <i>IEEE Journal of Oceanic Engineering</i> , 2021 , 46, 24-39	3.3	12
193 192		3.3	12
	Techniques in Dynamic Positioning. <i>IEEE Journal of Oceanic Engineering</i> , 2021 , 46, 24-39	3-3	
192	Techniques in Dynamic Positioning. <i>IEEE Journal of Oceanic Engineering</i> , 2021 , 46, 24-39 2018 , Experimental validation of a uniformly semi-globally exponentially stable non-linear observer for	3·3 6·7	12
192 191	Techniques in Dynamic Positioning. <i>IEEE Journal of Oceanic Engineering</i> , 2021 , 46, 24-39 2018 , Experimental validation of a uniformly semi-globally exponentially stable non-linear observer for GNSS- and camera-aided inertial navigation for fixed-wing UAVs 2015 , Autonomous recovery of a fixed-wing UAV using a net suspended by two multirotor UAVs. <i>Journal</i>		12
192 191 190	Techniques in Dynamic Positioning. <i>IEEE Journal of Oceanic Engineering</i> , 2021 , 46, 24-39 2018 , Experimental validation of a uniformly semi-globally exponentially stable non-linear observer for GNSS- and camera-aided inertial navigation for fixed-wing UAVs 2015 , Autonomous recovery of a fixed-wing UAV using a net suspended by two multirotor UAVs. <i>Journal of Field Robotics</i> , 2018 , 35, 717-731 Nonlinear Observer for Tightly Coupled Integration of Pseudorange and Inertial Measurements.	6.7	12 11 11
192 191 190 189	2018, Experimental validation of a uniformly semi-globally exponentially stable non-linear observer for GNSS- and camera-aided inertial navigation for fixed-wing UAVs 2015, Autonomous recovery of a fixed-wing UAV using a net suspended by two multirotor UAVs. <i>Journal of Field Robotics</i> , 2018, 35, 717-731 Nonlinear Observer for Tightly Coupled Integration of Pseudorange and Inertial Measurements. <i>IEEE Transactions on Control Systems Technology</i> , 2016, 24, 2199-2206 Icing detection in unmanned aerial vehicles with longitudinal motion using an LPV unknown input	6.7	12 11 11
192 191 190 189	2018, Experimental validation of a uniformly semi-globally exponentially stable non-linear observer for GNSS- and camera-aided inertial navigation for fixed-wing UAVs 2015, Autonomous recovery of a fixed-wing UAV using a net suspended by two multirotor UAVs. <i>Journal of Field Robotics</i> , 2018, 35, 717-731 Nonlinear Observer for Tightly Coupled Integration of Pseudorange and Inertial Measurements. <i>IEEE Transactions on Control Systems Technology</i> , 2016, 24, 2199-2206 Icing detection in unmanned aerial vehicles with longitudinal motion using an LPV unknown input observer 2015,	6.7	12 11 11 11

184	Estimation of Flow Rate and Viscosity in a Well with an Electric Submersible Pump using Moving Horizon Estimation**This work is funded by the Research Council of Norway and Statoil through the PETROMAKS project No. 215684: Enabling High-Performance Safety-Critical Offshore and	0.7	10
183	Subsea Automatic Control Systems Using Embedded Optimization (emOpt). <i>IFAC-PapersOnLine</i> , 2015, 48, 140-146. User-Configurable Timing and Navigation for UAVs. <i>Sensors</i> , 2018, 18,	3.8	10
182	Multi-Resolution Explicit Model Predictive Control: Delta-Model Formulation and Approximation. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 2979-2984	5.9	10
181	SyncBoard - A high accuracy sensor timing board for UAV payloads 2017 ,		10
180	Estimation of wind velocities and aerodynamic coefficients for UAVs using standard autopilot sensors and a Moving Horizon Estimator 2017 ,		10
179	Nonlinear observer for inertial navigation aided by pseudo-range and range-rate measurements 2015 ,		10
178	Non-linear model predictive control for guidance of a fixed-wing UAV in precision deep stall landing 2015 ,		10
177	Task assignment for cooperating UAVs under radio propagation path loss constraints 2012 ,		10
176	A Nonlinear Model-Based Wind Velocity Observer for Unmanned Aerial Vehicles. <i>IFAC-PapersOnLine</i> , 2016 , 49, 276-283	0.7	10
175	Advancing multi-vehicle deployments in oceanographic field experiments. <i>Autonomous Robots</i> , 2019 , 43, 1555-1574	3	10
174	Fault tolerant control of uncertain dynamical systems using interval virtual actuators. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 611-624	3.6	10
173	Autonomous search and tracking of objects using model predictive control of unmanned aerial vehicle and gimbal: Hardware-in-the-loop simulation of payload and avionics 2015 ,		9
172	Analysis and design of quadratic parameter varying (QPV) control systems with polytopic attractive region. <i>Journal of the Franklin Institute</i> , 2018 , 355, 3488-3507	4	9
171	A virtual vertical reference concept for aided inertial navigation at the sea surface. <i>Control Engineering Practice</i> , 2018 , 70, 1-14	3.9	9
170	Regularized Nonlinear Moving-Horizon Observer With Robustness to Delayed and Lost Data. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 2114-2128	4.8	9
169	An unknown input observer approach to icing detection for unmanned aerial vehicles with linearized longitudinal motion 2015 ,		9
168	A uniformly semiglobally exponentially stable nonlinear observer for GNSS- and camera-aided inertial navigation 2014 ,		9
167	Suspended load motion control using multicopters 2014 ,		9

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166	Observer and IMU-based detection and isolation of faults in position reference systems and gyrocompasses with dual redundancy in dynamic positioning 2014 ,		9	
165	Reducing Power Load Fluctuations on Ships Using Power Redistribution Control 2008 , 45, 162-174		9	
164	Autonomous ballistic airdrop of objects from a small fixed-wing unmanned aerial vehicle. <i>Autonomous Robots</i> , 2020 , 44, 859-875	3	9	
163	Design of inertial navigation systems for marine craft with adaptive wave filtering aided by triple-redundant sensor packages. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017 , 31, 522-544	2.8	8	
162	Improved predictions from measured disturbances in linear model predictive control. <i>Journal of Process Control</i> , 2019 , 75, 86-106	3.9	8	
161	Tracking of Ocean Surface Objects from Unmanned Aerial Vehicles with a Pan/Tilt Unit using a Thermal Camera. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018 , 91, 775-793	2.9	8	
160	MEMS-based Inertial Navigation on Dynamically Positioned Ships: Dead Reckoning. <i>IFAC-PapersOnLine</i> , 2016 , 49, 139-146	0.7	8	
159	Guaranteed feasible control allocation using model predictive control. <i>Control Theory and Technology</i> , 2019 , 17, 252-264	1	8	
158	A Virtual Vertical Reference Concept for GNSS/INS Applications at the Sea Surface. <i>IFAC-PapersOnLine</i> , 2015 , 48, 127-133	0.7	8	
157	A UAV ice tracking framework for autonomous sea ice management 2017 ,		8	
156	Redesign and analysis of globally asymptotically stable bearing only SLAM 2017,		8	
155	. IEEE Transactions on Aerospace and Electronic Systems, 2020 , 56, 2101-2121	3.7	8	
154	Coordinated control concept for recovery of a fixed-wing UAV on a ship using a net carried by multirotor UAVs 2016 ,		8	
153	Multi-agent informed path planning using the probability hypothesis density. <i>Autonomous Robots</i> , 2020 , 44, 913-925	3	7	
152	Attitude and Heave Estimation for Ships using MEMS-based Inertial Measurements. <i>IFAC-PapersOnLine</i> , 2016 , 49, 568-575	0.7	7	
151	Icing detection and identification for unmanned aerial vehicles using adaptive nested multiple models. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017 , 31, 1584-1607	2.8	7	
150	Approach Methods for Autonomous Precision Aerial Drop from a Small Unmanned Aerial Vehicle. <i>IFAC-PapersOnLine</i> , 2017 , 50, 3566-3573	0.7	7	
149	Moving horizon estimation for tire-road friction during braking 2010 ,		7	

148	Explicit Model Predictive Control of an electropneumatic clutch actuator using on/off valves and pulse-width modulation 2009 ,		7
147	Transient power control in dynamic positioning - governor feedforward and dynamic thrust allocation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 158-16	3	7
146	Improved Transient Performance by Lyapunov-based Integrator Reset of PI Thruster Control in Extreme Seas 2006 ,		7
145	Wheel slip control using gain-scheduled LQ ILPV/LMI analysis and experimental results 2003,		7
144	Wave motion compensation in dynamic positioning of small autonomous vessels. <i>Journal of Marine Science and Technology</i> , 2020 , 26, 693	1.7	7
143	. IEEE Transactions on Aerospace and Electronic Systems, 2020 , 56, 2157-2173	3.7	7
142	Multi-Agent Formation Tracking for Autonomous Surface Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-12	4.8	7
141	Fuzzy domain and meta-heuristic algorithm-based collision avoidance control for ships: Experimental validation in virtual and real environment. <i>Ocean Engineering</i> , 2021 , 220, 108502	3.9	7
140	Net recovery of UAV with single-frequency RTK GPS 2015 ,		6
139	Optimized current reference generation for system-level harmonic mitigation in a diesel-electric ship using non-linear model predictive control 2015 ,		6
138	Constrained MPC design for heave disturbance attenuation in offshore drilling systems 2013,		6
137	Moving Horizon Estimation for Integrated Navigation Filtering. <i>IFAC-PapersOnLine</i> , 2015 , 48, 519-526	0.7	6
136	Nonlinear observer for INS aided by time-delayed GNSS measurements: Implementation and UAV experiments 2015 ,		6
135	Fault-tolerant control allocation with actuator dynamics: Finite-time control reconfiguration 2014 ,		6
134	Adaptive Model Estimation of Vibration Motion for a Nanopositioner With Moving Horizon Optimized Extended Kalman Filter. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013 , 135,	1.6	6
133	Distributed MPC-Based Path Planning for UAVs under Radio Communication Path Loss Constraints. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 254-259		6
132	2009,		6
131	Explicit Approximate Approach to Feedback Min-Max Model Predictive Control of Constrained Nonlinear Systems 2006 ,		6

130	Approaches to explicit Nonlinear Model Predictive Control with reduced partition complexity 2009,		6
129	Range-based target localization and pursuit with autonomous vehicles: An approach using posterior CRLB and model predictive control. <i>Robotics and Autonomous Systems</i> , 2020 , 132, 103608	3.5	6
128	Experimental Heat Loads for Electrothermal Anti-Icing and De-Icing on UAVs. <i>Aerospace</i> , 2021 , 8, 83	2.5	6
127	Enhanced Hydroacoustic Range Robustness of Three-Stage Position Filter based on Long Baseline Measurements with Unknown Wave Speed. <i>IFAC-PapersOnLine</i> , 2016 , 49, 61-67	0.7	6
126	. IEEE Transactions on Aerospace and Electronic Systems, 2021 , 57, 90-104	3.7	6
125	Object detection, recognition, and tracking from UAVs using a thermal camera. <i>Journal of Field Robotics</i> , 2021 , 38, 242-267	6.7	6
124	Fault-Tolerant Control Allocation for Overactuated Nonlinear Systems. <i>Asian Journal of Control</i> , 2018 , 20, 621-634	1.7	5
123	Detection of icing and actuators faults in the longitudinal dynamics of small UAVs using an LPV proportional integral unknown input observer 2016 ,		5
122	Further results on the exploration of combinatorial tree in multi-parametric quadratic programming 2016 ,		5
121	Design and comparison of adaptive estimators for Under-balanced Drilling 2014,		5
120	Coordinated maritime missions of unmanned vehicles [Network architecture and performance analysis 2017 ,		5
119	Nonlinear Moving Horizon Observer for Estimation of States and Parameters in Under-Balanced Drilling Operations 2014 ,		5
118	Nonlinear Model Predictive Control. Lecture Notes in Control and Information Sciences, 2012, 39-69	0.5	5
117	Multi-parametric Programming. Lecture Notes in Control and Information Sciences, 2012, 1-37	0.5	5
116	Fault-tolerant control allocation: An Unknown Input Observer based approach with constrained output fault directions 2013 ,		5
115	Rotary-Wing UAVs Trajectory Planning by Distributed Linear MPC with Reconfigurable Communication Network Topologies. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 198-205		5
114	A computational approach to explicit feedback stochastic Nonlinear Model Predictive Control 2010,		5
113	Nonlinear hierarchical control allocation for vehicle yaw stabilization and rollover prevention 2009,		5

112	Barrier function nonlinear optimization for optimal Decompression of divers 2009,		5
111	State and parameter estimation for linear systems with nonlinearly parameterized perturbations 2009 ,		5
110	2011,		5
109	Modeling of Air-Fuel Ratio Dynamics of Gasoline Combustion Engine With ARX Network. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2008 , 130,	1.6	5
108	Optimal constrained control allocation in marine surface vessels with rudders. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003 , 36, 181-186		5
107	Tightly coupled integrated inertial and real-time-kinematic positioning approach using nonlinear observer 2016 ,		5
106	A Survey of Practical Design Considerations of Optical Imaging Stabilization Systems for Small Unmanned Aerial Systems. <i>Sensors</i> , 2019 , 19,	3.8	5
105	Nonlinear Observer for Tightly Coupled Integrated Inertial Navigation Aided by RTK-GNSS Measurements. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 1084-1099	4.8	5
104	Precision Deep-Stall Landing of Fixed-Wing UAVs Using Nonlinear Model Predictive Control. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021 , 101, 1	2.9	5
103	Adaptive Sampling of Ocean Processes Using an AUV with a Gaussian Proxy Model. <i>IFAC-PapersOnLine</i> , 2018 , 51, 238-243	0.7	5
102	Exogenous Kalman Filter for State-of-Charge Estimation in Lithium-Ion Batteries 2018,		5
101	Management of harmonic propagation in a marine vessel by use of optimization 2015,		4
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